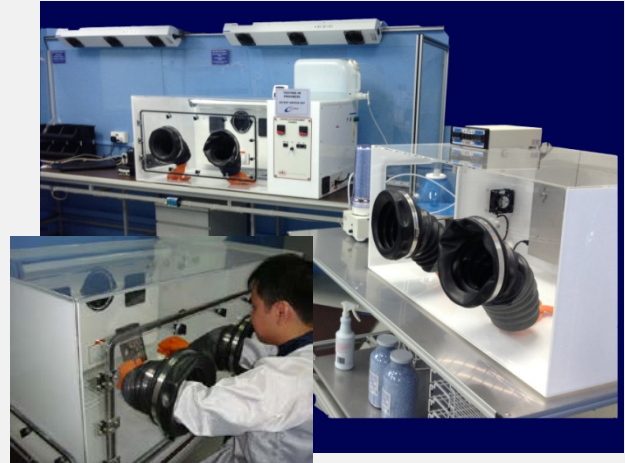


STATIC CONTROL (ESD) MATERIALS TESTING LABORATORY

Cesstech has an independent & well-equipped laboratory for the testing, measurement & evaluation of static control (ESD) protective equipment and materials used to protect ESD sensitive devices including both raw materials and finished products . The testing is done to internationally recognised standards from ESDA (ESD Association), EIA, SEMI standards amongst others



Features & Benefits

- Well-Equipped lab
- Possess Relevant Experience
- Possess Environmental chambers that can condition and test samples at the required temperature of 23°C and RH of 12% and 50%
- Inventory of appropriate test equipment & Instrumentation
- Testing supervised by trained iNARTE certified technicians & engineers
- Testing to Internationally recognised, ESDA standards, amongst others
- Easy to understand, Formal Reports with recommendations

Common Tests / Standards

Common Tests / Measurements done :

- Surface & Volume resistance testing & measurement per ESDA STM11.11 / 11.12
- Energy measurement & evaluation of Static shielding bags per ESDA STM11.31
- Floor Materials testing & measurement per ESDA S7.1
- 2 Point resistance measurement per ESDA STM11.13
- Worksurfaces (ESD Mats) Resistance measurements per ESDA STM4.1
- Footwear per ESDA STM9.1
- Gloves / Finger Cots testing per ESDA SP15.1

Capabilities

Able to test the following :

- Packaging materials like trays, foams, separators, reticle boxes, totes etc
- ESD mats
- Shielding bags / moisture barrier bags
- Gloves / Finger cots
- Floor / Wall materials
- Wrist straps
- Garments
- Ionizers
- Raw materials for production
- Production aids
- Finished products

**GET AHEAD OF YOUR
COMPETITION NOW
- GET YOUR STATIC CONTROL
(ESD) MATERIALS TESTED TO THE
ESDA STANDARDS**

ADVANCED ESD SOLUTIONS



ESD Engineers /
Technicians on Staff



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OTHER STATIC CONTROL / ESD RELATED SERVICES :

ESD Surveys, Audits & Testing

Checking and verification of every aspect of in-house and factory wide ESDC programmes and ESD safe practices . The audit will include measurement of surface charge / field potential / triboelectrification and resistance measurements (amongst others) on tools, direct / indirect materials, workstations, Electrostatic Protected Areas (EPAs), floors, gloves, packaging materials, ESD garments, mobile equipment, shelving and footwear amongst others

Implementing a ESD Compliance Verification Plan

Includes developing a compliance verification plan to check and assess the ESD environment with regards to periodic tests and measurements . The plan will cover personnel, materials, production tools, storage and transfer mechanisms and components of a cleanroom environment, where applicable . The type of tests to be carried out, the test equipment to be used, the acceptance criteria and the frequency of testing will all be covered as part of the compliance verification plan .

Other Services :

- SEMI E78 Compliance testing (for semiconductor applications) to assess ESD / ESA environment within semiconductor tools
- Resistance / Voltage measurement in Combination with a person per ESDA STM97.1 & 97.2 – site evaluation of the footwear / floor material in combination with a person
- Grounding measurements & evaluations - includes measurement of grounding / bonding systems (common point ground, AC equipment ground (electrical receptacles)) per ESDA S6.1

ESD Testing for Tools / Minienvironments

Includes testing and verification of materials, work surfaces, transfer mechanisms, grounding, ionization and the general environment and enclosures . Tests include surface charge / field potential and triboelectrification tests, resistance measurements, grounding checks, quantifying number and magnitude of ESD events, electromagnetic field measurement and ionizer performance measurements, amongst others

Monitoring & Quantifying ESD events

Includes using ESD event monitors and software to evaluate the environment under concern . By appropriate placement of the ESD event monitors, ESD events can be quickly picked up and assessed depending on the ESD susceptibility of the product and/or environment . Remedial action can then be recommended and implemented. Applicable to ESD-safe environments, tools and mini-environments . Can be implemented as part of a facility's ESD compliance verification plan as quantifiable data can be obtained on the performance and success of the adopted ESD control program through such measurements



ADVANCED ESD SOLUTIONS

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ESD Engineers /
Technicians on Staff



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